

Appln No. 09/718,725

PATENT APPLICATION**In the claims:****1-75 (Cancelled)**

76. (new) An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:121.

77. (new) An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:123.

78. (new) An antibody or fragment thereof which specifically binds to an OPG polypeptide consisting of residues 22-401 inclusive of SEQ ID NO:125.

79. (new) The antibody or fragment of Claim 78 which specifically binds to an OPG polypeptide consisting of residues 22-185, 22-189, 22-194 or 22-201 inclusive as shown in SEQ ID NO:125.

80. (new) The antibody or fragment of Claims 76, 77, 78 or 79 which is a monoclonal antibody.

81. (new) The antibody or fragment of Claims 76, 77, 78 or 79 which is a chimeric antibody.

82. (new) The antibody or fragment of Claims 76, 77, 78 or 79 which is a CDR-grafted antibody.

83. (new) The antibody or fragment of Claims 76, 77, 78 or 79 which is a humanized antibody.

84. (new) The antibody or fragment of Claims 76, 77, 78 or 79 which is a human antibody.

85. (new) A method for detecting the presence of OPG in a biological sample comprising:

incubating the sample with the antibody or fragment of Claims 76, 77, 78 or 79 under conditions that allow binding of the antibody to OPG; and

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detecting the bound antibody.

86. (new) A method for removing OPG from a biological sample comprising:
contacting the sample with the antibody or fragment of Claims 76, 77, 78 or 79 under conditions that allow binding of the antibody to OPG; and
removing the antibody from the sample.